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<110> Cambridge Antibody Technology Limited  
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<120> Human Antibody Molecules for IL-13

<130> 43518-0001 PC US

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Gly Trp Ile Ser Ala Asn Asn Gly Asp Thr Asn Tyr Gly Gln Glu Phe  
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Gln Gly Arg Ile Thr Met Thr Thr Glu Thr Ser Thr Asn Thr Ala His  
 65 70 75 80

Met Glu Leu Arg Ser Leu Arg Ser Asp Asp Thr Ala Val Tyr Tyr Cys  
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Asp Asp Gly Asp Arg Pro Ser Gly Ile Pro Glu Arg Phe Ser Gly Ser  
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Asn Ser Gly Asn Thr Ala Thr Leu Thr Ile Ser Arg Ile Asp Ala Gly  
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Gly Trp Ile Ser Ala Asn Asn Gly Asp Thr Asn Tyr Gly Gln Glu Phe  
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Gln Gly Arg Val Thr Met Thr Thr Asp Thr Ser Thr Ser Thr Ala Tyr  
65 70 75 80

Met Glu Leu Arg Ser Leu Arg Ser Asp Asp Thr Ala Val Tyr Tyr Cys  
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Ala Arg Asp Ser Ser Ser Ser Trp Ala Arg Trp Phe Phe Asp Leu Trp  
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Ser Tyr Val Leu Thr Gln Pro Pro Ser Val Ser Val Ala Pro Gly Lys  
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Asp Asp Gly Asp Arg Pro Ser Gly Ile Pro Glu Arg Phe Ser Gly Ser  
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Asn Ser Gly Asn Thr Ala Thr Leu Thr Ile Ser Arg Val Glu Ala Gly  
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Glu Val Gln Leu Leu Glu Ser Gly Gly Gly Leu Val Gln Pro Gly Gly  
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Ser Leu Arg Leu Ser Cys Ala Ala Ser Gly Phe Thr Phe Ser Ser Tyr  
20 25 30

Ala Met Ser Trp Val Arg Gln Ala Pro Gly Lys Gly Leu Glu Trp Val  
35 40 45

Ser Ala Ile Ser Gly Ser Gly Gly Ser Thr Tyr Tyr Ala Asp Ser Val  
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Lys Gly Arg Phe Thr Ile Ser Arg Asp Asn Ser Lys Asn Thr Leu Tyr  
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Leu Gln Met Asn Ser Leu Arg Ala Glu Asp Thr Ala Val Tyr Tyr Cys  
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Gly Thr Leu Val Thr Val Ser Ser  
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Tyr Val Gln Trp Tyr Gln Gln Arg Pro Gly Ser Ala Pro Thr Thr Val  
35 40 45

Ile Tyr Asp Asp Asn Gln Arg Pro Ser Gly Val Pro Asp Arg Phe Ser  
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Gly Ser Ile Asp Ser Ser Ser Asn Ser Ala Ser Leu Thr Ile Ser Gly  
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Tyr Gly Met Ser Trp Val Arg Gln Ala Pro Gly Lys Gly Leu Glu Trp  
 35 40 45

Val Ser Ser Ile Ser Ala Ser Gly Asp Ser Thr Phe Tyr Ala Asp Ser  
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Val Lys Gly Arg Phe Thr Ile Ser Arg Asp Asn Asn Lys Asn Met Val  
 65 70 75 80

Phe Leu Gln Val Asn Ser Leu Arg Ala Asp Asp Thr Ala Val Tyr Phe  
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Cys Ala Lys Asp Trp Ser Gln Trp Leu Val Gly Asp Ala Phe Asp Val  
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Trp Gly Arg Gly Thr Thr Val Thr Val Ser Ser  
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Asp Ile Gln Leu Thr Gln Ser Pro Ser Thr Leu Ser Ala Ser Val Gly  
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Asp Arg Val Thr Ile Thr Cys Arg Ala Ser Gln Ser Val Ser Leu Trp  
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Val Ala Trp Tyr Gln Gln Arg Pro Gly Lys Ala Pro Lys Leu Leu Ile  
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Tyr Asp Gly Ser Thr Leu Gln Ser Gly Val Pro Ala Arg Phe Ser Gly  
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Ser Gly Ser Gly Thr Glu Phe Thr Leu Thr Ile Ser Ser Leu Gln Pro  
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Asp Asp Phe Ala Thr Tyr Tyr Cys Gln Gln Tyr Lys Thr Phe Ser Thr  
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Phe Gly Gln Gly Thr Lys Val Glu Ile Lys Arg Ala  
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Glu Val Gln Leu Leu Glu Ser Gly Gly Gly Leu Val Gln Pro Gly Gly  
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Ser Leu Arg Leu Ser Cys Ala Ala Ser Gly Phe Thr Phe Ser Ser Tyr  
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Ala Met Ser Trp Val Arg Gln Ala Pro Gly Lys Gly Leu Glu Trp Val  
 35 40 45

Ser Ala Ile Ser Gly Ser Gly Gly Ser Thr Tyr Tyr Ala Asp Ser Val  
 50 55 60

Lys Gly Arg Phe Thr Ile Ser Arg Asp Asn Ser Lys Asn Thr Leu Tyr  
 65 70 75 80

Leu Gln Met Asn Ser Leu Arg Ala Glu Asp Thr Ala Val Tyr Tyr Cys  
 85 90 95

Ala Arg Val Gly Lys Ala Thr Thr Glu Glu Gly Tyr Tyr Gly Tyr Trp  
 100 105 110

Gly Arg Gly Thr Leu Val Thr Val Ser Ser  
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&lt;213&gt; Homo sapiens

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Asn Phe Met Leu Thr Gln Pro His Ser Val Ser Glu Ser Pro Gly Lys  
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Thr Val Thr Ile Ser Cys Thr Arg Ser Ser Gly Ser Ile Ala Ser Asn  
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Tyr Val Gln Trp Tyr Gln Gln Arg Pro Gly Ser Ala Pro Thr Thr Val  
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Ile Tyr Asp Asp Asn Gln Arg Pro Ser Gly Val Pro Asp Arg Phe Ser  
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Gly Ser Ile Asp Ser Ser Ser Asn Ser Ala Ser Leu Thr Ile Ser Gly  
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Asn Asn Asp Val Phe Gly Gly Gly Thr Lys Val Thr Val Leu  
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Gly Trp Ile Ser Ala Asn Asn Gly Asp Thr Asn Tyr Gly Gln Glu Phe  
 50 55 60

Gln Gly Arg Val Thr Met Thr Thr Asp Thr Ser Thr Ser Thr Ala Tyr  
 65 70 75 80

Met Glu Leu Arg Ser Leu Arg Ser Asp Asp Thr Ala Val Tyr Tyr Cys  
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Ala Arg Asp Ser Ser Ser Ser Trp Ala Arg Trp Phe Phe Asp Leu Trp  
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Gly Arg Gly Thr Leu Val Thr Val Ser Ser  
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&lt;213&gt; Homo sapiens

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Ser Tyr Val Leu Thr Gln Pro Pro Ser Val Ser Val Ala Pro Gly Lys  
 1 5 10 15

Thr Ala Arg Ile Thr Cys Gly Gly Asn Ile Ile Gly Ser Lys Leu Val  
 20 25 30

His Trp Tyr Gln Gln Lys Pro Gly Gln Ala Pro Val Leu Val Ile Tyr  
 35 40 45

Asp Asp Gly Asp Arg Pro Ser Gly Ile Pro Glu Arg Phe Ser Gly Ser  
 50 55 60

Asn Ser Gly Asn Thr Ala Thr Leu Thr Ile Ser Arg Val Glu Ala Gly  
 65 70 75 80

Asp Glu Ala Asp Tyr Tyr Cys Gln Val Trp Asp Thr Gly Ser Asp Pro  
 85 90 95

Val Val Phe Gly Gly Gly Thr Lys Leu Thr Val Leu  
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&lt;210&gt; 37

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&lt;213&gt; Homo sapiens

&lt;400&gt; 37

Gln Val Gln Leu Val Gln Ser Gly Ala Glu Val Lys Lys Pro Gly Ala  
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Ser Val Lys Val Ser Cys Lys Ala Ser Gly Tyr Thr Phe Thr Asn Tyr  
 20 25 30

Gly Leu Ser Trp Val Arg Gln Ala Pro Gly Gln Gly Leu Glu Trp Met  
 35 40 45



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Gly Trp Ile Asn Tyr Asp Gly Gly Asn Thr Gln Tyr Gly Gln Glu Phe  
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Gln Gly Arg Val Thr Met Thr Thr Asp Thr Ser Thr Ser Thr Ala Tyr  
 65 70 75 80

Met Glu Leu Arg Ser Leu Arg Ser Asp Asp Thr Ala Val Tyr Tyr Cys  
 85 90 95

Ala Arg Asp Ser Ser Ser Ser Trp Ala Arg Trp Phe Phe Asp Leu Trp  
 100 105 110

Gly Arg Gly Thr Leu Val Thr Val Ser Ser  
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Ser Tyr Val Leu Thr Gln Pro Pro Ser Val Ser Val Ala Pro Gly Lys  
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Thr Ala Arg Ile Thr Cys Gly Gly Asn Ile Ile Gly Ser Lys Leu Val  
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His Trp Tyr Gln Gln Lys Pro Gly Gln Ala Pro Val Leu Val Ile Tyr  
 35 40 45

Asp Asp Gly Asp Arg Pro Ser Gly Ile Pro Glu Arg Phe Ser Gly Ser  
 50 55 60

Asn Ser Gly Asn Thr Ala Thr Leu Thr Ile Ser Arg Val Glu Ala Gly  
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Asp Glu Ala Asp Tyr Tyr Cys Gln Val Trp Asp Thr Gly Ser Asp Pro  
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Val Val Phe Gly Gly Gly Thr Lys Leu Thr Val Leu  
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Gln Val Gln Leu Val Gln Ser Gly Ala Glu Val Lys Lys Pro Gly Ala  
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Ser Val Lys Val Ser Cys Lys Ala Ser Gly Tyr Thr Phe Thr Asn Tyr  
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Gly Leu Ser Trp Val Arg Gln Ala Pro Gly Gln Gly Leu Glu Trp Met  
 35 40 45

Gly Trp Ile Ser Gly Leu Asn Gly Glu Thr Leu Tyr Gly Gln Glu Phe  
 50 55 60

Gln Gly Arg Val Thr Met Thr Thr Asp Thr Ser Thr Ser Thr Ala Tyr  
 65 70 75 80

Met Glu Leu Arg Ser Leu Arg Ser Asp Asp Thr Ala Val Tyr Tyr Cys  
 85 90 95

Ala Arg Asp Ser Ser Ser Ser Trp Ala Arg Trp Phe Phe Asp Leu Trp  
 100 105 110

Gly Arg Gly Thr Leu Val Thr Val Ser Ser  
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&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

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Ser Tyr Val Leu Thr Gln Pro Pro Ser Val Ser Val Ala Pro Gly Lys  
 1 5 10 15

Thr Ala Arg Ile Thr Cys Gly Gly Asn Ile Ile Gly Ser Lys Leu Val  
 20 25 30

His Trp Tyr Gln Gln Lys Pro Gly Gln Ala Pro Val Leu Val Ile Tyr  
 Page 18

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Asp Asp Gly Asp Arg Pro Ser Gly Ile Pro Glu Arg Phe Ser Gly Ser  
 50 55 60

Asn Ser Gly Asn Thr Ala Thr Leu Thr Ile Ser Arg Val Glu Ala Gly  
 65 70 75 80

Asp Glu Ala Asp Tyr Tyr Cys Gln Val Trp Asp Thr Gly Ser Asp Pro  
 85 90 95

Val Val Phe Gly Gly Gly Thr Lys Leu Thr Val Leu  
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Gln Val Gln Leu Val Gln Ser Gly Ala Glu Val Lys Lys Pro Gly Ala  
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Ser Val Lys Val Ser Cys Lys Ala Ser Gly Tyr Thr Phe Thr Asn Tyr  
 20 25 30

Gly Leu Ser Trp Val Arg Gln Ala Pro Gly Gln Gly Leu Glu Trp Met  
 35 40 45

Gly Trp Ile Ala Thr Pro Asp Gly Gln Thr Ser Tyr Gly Gln Glu Phe  
 50 55 60

Gln Gly Arg Val Thr Met Thr Thr Asp Thr Ser Thr Ser Thr Ala Tyr  
 65 70 75 80

Met Glu Leu Arg Ser Leu Arg Ser Asp Asp Thr Ala Val Tyr Tyr Cys  
 85 90 95

Ala Arg Asp Ser Asn Ser Ser Trp Ala Arg Trp Phe Phe Asp Leu Trp  
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Gly Arg Gly Thr Leu Val Thr Val Ser Ser  
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Ser Tyr Val Leu Thr Gln Pro Pro Ser Val Ser Val Ala Pro Gly Lys  
 1 5 10 15

Thr Ala Arg Ile Thr Cys Gly Gly Asn Ile Ile Gly Ser Lys Leu Val  
 20 25 30

His Trp Tyr Gln Gln Lys Pro Gly Gln Ala Pro Val Leu Val Ile Tyr  
 35 40 45

Asp Asp Gly Asp Arg Pro Ser Gly Ile Pro Glu Arg Phe Ser Gly Ser  
 50 55 60

Asn Ser Gly Asn Thr Ala Thr Leu Thr Ile Ser Arg Val Glu Ala Gly  
 65 70 75 80

Asp Glu Ala Asp Tyr Tyr Cys Gln Val Trp Asp Thr Gly Ser Asp Pro  
 85 90 95

Val Val Phe Gly Gly Gly Thr Lys Leu Thr Val Leu  
 100 105

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Gln Val Gln Leu Val Gln Ser Gly Ala Glu Val Lys Lys Pro Gly Ala  
 1 5 10 15

Ser Val Lys Val Ser Cys Lys Ala Ser Gly Tyr Thr Phe Ile Asp Thr  
 20 25 30

Gly Val Ser Trp Val Arg Gln Ala Pro Gly Gln Gly Leu Glu Trp Met  
 35 40 45

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Gly Trp Ile Ser Ala Asn Asn Gly Asp Thr Asn Tyr Gly Gln Glu Phe  
50 55 60

Gln Gly Arg Val Thr Met Thr Thr Asp Thr Ser Thr Ser Thr Ala Tyr  
65 70 75 80

Met Glu Leu Arg Ser Leu Arg Ser Asp Asp Thr Ala Val Tyr Tyr Cys  
85 90 95

Ala Arg Asp Ser Ser Ser Ser Trp Ala Arg Trp Phe Phe Asp Leu Trp  
100 105 110

Gly Arg Gly Thr Leu Val Thr Val Ser Ser  
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Ser Tyr Val Leu Thr Gln Pro Pro Ser Val Ser Val Ala Pro Gly Lys  
1 5 10 15

Thr Ala Arg Ile Thr Cys Gly Gly Asn Ile Ile Gly Ser Lys Leu Val  
20 25 30

His Trp Tyr Gln Gln Lys Pro Gly Gln Ala Pro Val Leu Val Ile Tyr  
35 40 45

Asp Asp Gly Asp Arg Pro Ser Gly Ile Pro Glu Arg Phe Ser Gly Ser  
50 55 60

Asn Ser Gly Asn Thr Ala Thr Leu Thr Ile Ser Arg Val Glu Ala Gly  
65 70 75 80

Asp Glu Ala Asp Tyr Tyr Cys Gln Val Trp Asp Thr Gly Ser Asp Pro  
85 90 95

Val Val Phe Gly Gly Gly Thr Lys Leu Thr Val Leu  
100 105

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&lt;400&gt; 45

Gln Val Gln Leu Val Gln Ser Gly Ala Glu Val Lys Lys Pro Gly Ala  
 1 5 10 15

Ser Val Lys Val Ser Cys Lys Ala Ser Gly Tyr Thr Phe Thr Asn Tyr  
 20 25 30

Gly Leu Ser Trp Val Arg Gln Ala Pro Gly Gln Gly Leu Glu Trp Met  
 35 40 45

Gly Trp Ile Ser Gly Ser Asn Gly Tyr Thr Ser Tyr Gly Gln Glu Phe  
 50 55 60

Gln Gly Arg Val Thr Met Thr Thr Asp Thr Ser Thr Ser Thr Ala Tyr  
 65 70 75 80

Met Glu Leu Arg Ser Leu Arg Ser Asp Asp Thr Ala Val Tyr Tyr Cys  
 85 90 95

Ala Arg Asp Ser Ser Ser Ser Trp Ala Arg Trp Phe Phe Asp Leu Trp  
 100 105 110

Gly Arg Gly Thr Leu Val Thr Val Ser Ser  
 115 120

&lt;210&gt; 46

&lt;211&gt; 108

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 46

Ser Tyr Val Leu Thr Gln Pro Pro Ser Val Ser Val Ala Pro Gly Lys  
 1 5 10 15

Thr Ala Arg Ile Thr Cys Gly Gly Asn Ile Ile Gly Ser Lys Leu Val  
 20 25 30

His Trp Tyr Gln Gln Lys Pro Gly Gln Ala Pro Val Leu Val Ile Tyr  
 Page 22

35

40

45

Asp Asp Gly Asp Arg Pro Ser Gly Ile Pro Glu Arg Phe Ser Gly Ser  
 50 55 60

Asn Ser Gly Asn Thr Ala Thr Leu Thr Ile Ser Arg Val Glu Ala Gly  
 65 70 75 80

Asp Glu Ala Asp Tyr Tyr Cys Gln Val Trp Asp Thr Gly Ser Asp Pro  
 85 90 95

Val Val Phe Gly Gly Gly Thr Lys Leu Thr Val Leu  
 100 105

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<213> Homo sapiens

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Gln Val Gln Leu Val Gln Ser Gly Ala Glu Val Lys Lys Pro Gly Ala  
 1 5 10 15

Ser Val Lys Val Ser Cys Lys Ala Ser Gly Tyr Thr Phe Thr Asn Tyr  
 20 25 30

Gly Leu Ser Trp Val Arg Gln Ala Pro Gly Gln Gly Leu Glu Trp Met  
 35 40 45

Gly Trp Ile Asn Asp Ala Thr Gly Asp Thr Gln Tyr Gly Gln Glu Phe  
 50 55 60

Gln Gly Arg Val Thr Met Thr Thr Asp Thr Ser Thr Ser Thr Ala Tyr  
 65 70 75 80

Met Glu Leu Arg Ser Leu Arg Ser Asp Asp Thr Ala Val Tyr Tyr Cys  
 85 90 95

Ala Arg Asp Ser Ser Ser Ser Trp Ala Arg Trp Phe Phe Asp Leu Trp  
 100 105 110

Gly Arg Gly Thr Leu Val Thr Val Ser Ser  
 115 120

## SeqListing.TXT

&lt;210&gt; 48

&lt;211&gt; 108

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&lt;400&gt; 48

Ser Tyr Val Leu Thr Gln Pro Pro Ser Val Ser Val Ala Pro Gly Lys  
 1 5 10 15

Thr Ala Arg Ile Thr Cys Gly Gly Asn Ile Ile Gly Ser Lys Leu Val  
 20 25 30

His Trp Tyr Gln Gln Lys Pro Gly Gln Ala Pro Val Leu Val Ile Tyr  
 35 40 45

Asp Asp Gly Asp Arg Pro Ser Gly Ile Pro Glu Arg Phe Ser Gly Ser  
 50 55 60

Asn Ser Gly Asn Thr Ala Thr Leu Thr Ile Ser Arg Val Glu Ala Gly  
 65 70 75 80

Asp Glu Ala Asp Tyr Tyr Cys Gln Val Trp Asp Thr Gly Ser Asp Pro  
 85 90 95

Val Val Phe Gly Gly Gly Thr Lys Leu Thr Val Leu  
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&lt;210&gt; 49

&lt;211&gt; 122

&lt;212&gt; PRT

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&lt;400&gt; . 49

Gln Val Gln Leu Val Gln Ser Gly Ala Glu Val Lys Lys Pro Gly Ala  
 1 5 10 15

Ser Val Lys Val Ser Cys Lys Ala Ser Gly Tyr Thr Phe Thr Asp Tyr  
 20 25 30

Gly Leu Ser Trp Val Arg Gln Ala Pro Gly Gln Gly Leu Glu Trp Met  
 35 40 45



## SeqListing.TXT

Gly Trp Ile Arg Asn Ile Asp Gly Tyr Thr Ile Tyr Gly Gln Glu Phe  
 50 55 60

Gln Gly Arg Val Thr Met Thr Thr Asp Thr Ser Thr Ser Thr Ala Tyr  
 65 70 75 80

Met Glu Leu Arg Ser Leu Arg Ser Asp Asp Thr Ala Val Tyr Tyr Cys  
 85 90 95

Ala Arg Asp Ser Ser Ser Ser Trp Ala Arg Trp Phe Phe Asp Leu Trp  
 100 105 110

Gly Arg Gly Thr Leu Val Thr Val Ser Ser  
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Ser Tyr Val Leu Thr Gln Pro Pro Ser Val Ser Val Ala Pro Gly Lys  
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Thr Ala Arg Ile Thr Cys Gly Gly Asn Ile Ile Gly Ser Lys Leu Val  
 20 25 30

His Trp Tyr Gln Gln Lys Pro Gly Gln Ala Pro Val Leu Val Ile Tyr  
 35 40 45

Asp Asp Gly Asp Arg Pro Ser Gly Ile Pro Glu Arg Phe Ser Gly Ser  
 50 55 60

Asn Ser Gly Asn Thr Ala Thr Leu Thr Ile Ser Arg Val Glu Ala Gly  
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Asp Glu Ala Asp Tyr Tyr Cys Gln Val Trp Asp Thr Gly Ser Asp Pro  
 85 90 95

Val Val Phe Gly Gly Gly Thr Lys Leu Thr Val Leu  
 100 105

<210> 51

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&lt;213&gt; Homo sapiens

&lt;400&gt; 51

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 1 5 10 15

Ser Val Lys Val Ser Cys Lys Ala Ser Gly Tyr Thr Phe Thr Asn Tyr  
 20 25 30

Gly Leu Ser Trp Val Arg Gln Ala Pro Gly Gln Gly Leu Glu Trp Met  
 35 40 45

Gly Trp Ile Asp Asp Asp Ser Gly Thr Thr Ile Tyr Gly Gln Glu Phe  
 50 55 60

Gln Gly Arg Val Thr Met Thr Thr Asp Thr Ser Thr Ser Thr Ala Tyr  
 65 70 75 80

Met Glu Leu Arg Ser Leu Arg Ser Asp Asp Thr Ala Val Tyr Tyr Cys  
 85 90 95

Ala Arg Asp Ser Ser Ser Ser Trp Ala Arg Trp Phe Phe Asp Leu Trp  
 100 105 110

Gly Arg Gly Thr Leu Val Thr Val Ser Ser  
 115 120

&lt;210&gt; 52

&lt;211&gt; 108

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 52

Ser Tyr Val Leu Thr Gln Pro Pro Ser Val Ser Val Ala Pro Gly Lys  
 1 5 10 15

Thr Ala Arg Ile Thr Cys Gly Gly Asn Ile Ile Gly Ser Lys Leu Val  
 20 25 30

His Trp Tyr Gln Gln Lys Pro Gly Gln Ala Pro Val Leu Val Ile Tyr  
 Page 26

35

40

45

Asp Asp Gly Asp Arg Pro Ser Gly Ile Pro Glu Arg Phe Ser Gly Ser  
 50 55 60

Asn Ser Gly Asn Thr Ala Thr Leu Thr Ile Ser Arg Val Glu Ala Gly  
 65 70 75 80

Asp Glu Ala Asp Tyr Tyr Cys Gln Val Trp Asp Thr Gly Ser Asp Pro  
 85 90 95

Val Val Phe Gly Gly Gly Thr Lys Leu Thr Val Leu  
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 35 40 45

Gly Trp Ile Ser Ala Asn Asn Gly Asp Thr Asn Tyr Gly Gln Glu Phe  
 50 55 60

Gln Gly Arg Val Thr Met Thr Thr Asp Thr Ser Thr Ser Thr Ala Tyr  
 65 70 75 80

Met Glu Leu Arg Ser Leu Arg Ser Asp Asp Thr Ala Val Tyr Tyr Cys  
 85 90 95

Ala Arg Asp Ser Ser Ser Ser Trp Ala Arg Trp Phe Phe Asp Leu Trp  
 100 105 110

Gly Arg Gly Thr Leu Val Thr Val Ser Ser  
 115 120

## SeqListing.TXT

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&lt;211&gt; 108

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 54

Ser Tyr Val Leu Thr Gln Pro Pro Ser Val Ser Val Ala Pro Gly Lys  
 1 5 10 15

Thr Ala Arg Ile Thr Cys Gly Gly Asn Ile Ile Gly Ser Lys Leu Val  
 20 25 30

His Trp Tyr Gln Gln Lys Pro Gly Gln Ala Pro Val Leu Val Ile Tyr  
 35 40 45

Asp Asp Gly Asp Arg Pro Ser Gly Ile Pro Glu Arg Phe Ser Gly Ser  
 50 55 60

Asn Ser Gly Asn Thr Ala Thr Leu Thr Ile Ser Arg Val Glu Ala Gly  
 65 70 75 80

Asp Glu Ala Asp Tyr Tyr Cys Gln Val Trp Asp Thr Gly Ser Asp Pro  
 85 90 95

Val Val Phe Gly Gly Gly Thr Lys Leu Thr Val Leu  
 100 105

&lt;210&gt; 55

&lt;211&gt; 5

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 55

Ser Tyr Ala Met Ser  
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&lt;210&gt; 56

&lt;211&gt; 17

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Ala Ile Ser Gly Ser Gly Gly Ser Thr Tyr Tyr Ala Asp Ser Val Lys  
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Gly

<210> 57

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Val Gly Ala Ala Gly Glu Gly Tyr Tyr Gly Tyr  
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<210> 58

<211> 13

<212> PRT

<213> Homo sapiens

<400> 58

Thr Arg Ser Ser Gly Ser Ile Ala Ser Asn Tyr Val Gln  
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<210> 59

<211> 7

<212> PRT

<213> Homo sapiens

<400> 59

Asp Asp Asn Gln Arg Pro Ser  
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<210> 60

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Gln Ser Tyr Asp Ser Asn Asn Asp Val  
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&lt;210&gt; 61

&lt;211&gt; 5

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 61

Gln Thr Gly Val Ser  
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&lt;210&gt; 62

&lt;211&gt; 17

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 62

Trp Ile Ser Ala Asn Asn Gly Asp Thr Asn Tyr Gly Gln Glu Phe Gln Gly  
1 5 10 15

&lt;210&gt; 63

&lt;211&gt; 13

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 63

Asp Ser Ser Ser Ser Trp Ala Arg Trp Phe Phe Asp Leu  
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Asn Thr Gly Ile Ser  
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&lt;211&gt; 17

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&lt;400&gt; 68

Trp Ile Ser Ala Asn Asn Gly Asp Thr Asn Tyr Gly Gln Glu Phe Gln Gly  
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&lt;210&gt; 69

&lt;211&gt; 13

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 69

Asp Ser Ser Ser Ser Trp Ala Arg Trp Phe Phe Asp Leu  
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&lt;210&gt; 70

&lt;211&gt; 11

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 70

Gly Gly Asn Ile Ile Gly Ser Lys Leu Val His  
1 5 10

&lt;210&gt; 71

&lt;211&gt; 7

&lt;212&gt; PRT

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&lt;400&gt; 71

Asp Asp Gly Asp Arg Pro Ser  
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# SeqListing.TXT

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Asn Tyr Gly Leu Ser  
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Gln Val Trp Asp Thr Gly Ser Asp Pro Val Val  
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Asn Tyr Gly Leu Ser

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&lt;213&gt; Homo sapiens

&lt;400&gt; 80

Trp Ile Asn Asp Ala Thr Gly Asp Thr Gln Tyr Gly Gln Glu Phe Gln Gly  
1 5 10 15

&lt;210&gt; 81

&lt;211&gt; 13

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 81

Asp Ser Ser Ser Ser Trp Ala Arg Trp Phe Phe Asp Leu  
1 5 10

&lt;210&gt; 82

&lt;211&gt; 11

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 82

Gly Gly Asn Ile Ile Gly Ser Lys Leu Val His  
1 5 10

&lt;210&gt; 83

&lt;211&gt; 7

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 83

Asp Asp Gly Asp Arg Pro Ser

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Gln val Trp Asp Thr Gly Ser Asp Pro val val  
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&lt;210&gt; 85

&lt;211&gt; 5

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 85

Asp Thr Gly val Ser  
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&lt;210&gt; 86

&lt;211&gt; 17

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 86

Trp Ile Ser Ala Asn Asn Gly Asp Thr Asn Tyr Gly Gln Glu Phe Gln Gly  
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&lt;210&gt; 87

&lt;211&gt; 13

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 87

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Gly Gly Asn Ile Ile Gly Ser Lys Leu Val His  
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&lt;211&gt; 11

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&lt;400&gt; 96

Gln Val Trp Asp Thr Gly Ser Asp Pro Val Val  
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&lt;210&gt; 97

&lt;211&gt; 5

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 97

Asn Tyr Gly Leu Ser  
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&lt;210&gt; 98

&lt;211&gt; 17

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&lt;211&gt; 327

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&lt;210&gt; 115

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&lt;212&gt; DNA

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&lt;400&gt; 115

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&lt;211&gt; 327

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&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 118

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&lt;400&gt; 119

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## SeqListing.TXT

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ttctctggct ccaactctgg gaacacggcc accctgacca tcagcagggg cgaggccggg	240
gatgaggccg actattattg tcaggtgtgg gatactggta gtgatcccgt ggtattcggc	300
ggagggacca agctgaccgt cctaggt	327

&lt;210&gt; 121

&lt;211&gt; 366

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

<400> 121	
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cctggacaag ggcttgagt gatgggatgg atcaactacg acggcggcaa cacacagtat	180
ggacaggaat tccagggcag agtcaccatg accacagata catccacgag cacagcctac	240
atggagttga ggagcctgag atctgacgac acggccgttt attactgtgc gagagactcc	300
agcagcagct gggcccgtg gtttttcgat ctctggggcc gggggacact ggtcaccgtc	360
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&lt;210&gt; 122

&lt;211&gt; 327

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

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caggccccctg tgctggtcat ctatgatgat ggcgaccggc cctcagggat ccctgagcga	180
ttctctggct ccaactctgg gaacacggcc accctgacca tcagcagggg cgaggccggg	240
gatgaggccg actattattg tcaggtgtgg gatactggta gtgatcccgt ggtattcggc	300
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&lt;210&gt; 123

&lt;211&gt; 366

## SeqListing.TXT

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 123

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cctggacaag ggcttgagtg gatgggatgg atcagcggga gcaacggcta cacatcttat	180
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atggagttga ggagcctgag atctgacgac acggccgttt attactgtgc gagagactcc	300
agcagcagct gggcccgtg gtttttcgat ctctggggcc gggggacact ggtcaccgtc	360
tcctca	366

&lt;210&gt; 124

&lt;211&gt; 327

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 124

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caggccccctg tgctgggtcat ctatgatgat ggcgaccggc cctcagggat ccctgagcga	180
ttctctggct ccaactctgg gaacacggcc accctgacca tcagcagggt cgaggccggg	240
gatgaggccg actattattg tcagggtgtgg gatactggta gtgatcccgt ggtattcggc	300
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&lt;210&gt; 125

&lt;211&gt; 366

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 125

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tcctgcaagg cttctggtta cacctttaca aattatgggtc tcagctgggt gcgacaggcc	120
cctggacaag ggcttgagtg gatgggatgg atcaacgacg ccaccggcga cacacagtat	180



## SeqListing.TXT

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agcagcagct gggcccgcgtg gtttttcgat ctctggggcc gggggacact ggtcaccgtc	360
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&lt;210&gt; 126

&lt;211&gt; 327

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

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caggccccctg tgctgggtcat ctatgatgat ggcgaccggc cctcagggat ccctgagcga	180
ttctctggct ccaactctgg gaacacggcc accctgacca tcagcagggt cgaggccggg	240
gatgaggccg actattattg tcagggtgtgg gatactggta gtgatcccgt ggtattcggc	300
ggagggacca agctgaccgt cctaggt	327

&lt;210&gt; 127

&lt;211&gt; 366

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

<400> 127	
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agcagcagct gggcccgcgtg gtttttcgat ctctggggcc gggggacact ggtcaccgtc	360
tcctca	366

&lt;210&gt; 128

&lt;211&gt; 327

## SeqListing.TXT

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 128

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caggccccctg tgctgggtcat ctatgatgat ggcgaccggc cctcagggat ccctgagcga	180
ttctctggct ccaactctgg gaacacggcc accctgacca tcagcagggt cgaggccggg	240
gatgaggccg actattattg tcagggtgtgg gatactggta gtgatcccgt ggtattcggc	300
ggaggggacca agctgaccgt cctaggt	327

&lt;210&gt; 129

&lt;211&gt; 366

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 129

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cctggacaag ggcttgagtg gatgggatgg atcgacgacg acagcggcac gacaatatat	180
ggacaggaat tccagggcag agtcaccatg accacagata catccacgag cacagcctac	240
atggagttga ggagcctgag atctgacgac acggccgttt attactgtgc gagagactcc	300
agcagcagct gggcccgtg gtttttcgat ctctggggcc gggggacact ggtcaccgtc	360
tcctca	366

&lt;210&gt; 130

&lt;211&gt; 327

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 130

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## SeqListing.TXT

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gatgaggccg actattattg tcaggtgtgg gatactggta gtgatcccgt ggtattcggc	300
ggagggacca agctgaccgt cctaggt	327

&lt;210&gt; 131

&lt;211&gt; 366

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 131

caagtgcagt tgggtgcagtc tggggctgag gtgaagaagc ctggggcctc agtgaaggtc	60
tcctgcaagg cttctgggta cacctttgcg aacaccggga tctcgtgggt gcgacaggcc	120
cctggacaag ggcttgagtg gatgggatgg atcagcgcta ataatggcga cacaaattat	180
ggacaggaat tccagggcag agtcaccatg accacagata catccacgag cacagcctac	240
atggagttga ggagcctgag atctgacgac acggccgttt attactgtgc gagagactcc	300
agcagcagct gggcccgtg gtttttcgat ctctggggtc gggggacact ggtcacctgc	360
tcctca	366

&lt;210&gt; 132

&lt;211&gt; 327

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 132

tcctatgtgc tgactcagcc accctcggtg tcagtggccc caggaaagac ggccaggatt	60
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caggccccctg tgctgggtcat ctatgatgat ggcgaccggc cctcagggat ccctgagcga	180
ttctctggct ccaactctgg gaacacggcc accctgacca tcagcagggt cgaggccggg	240
gatgaggccg actattattg tcaggtgtgg gatactggta gtgatcccgt ggtattcggc	300
ggagggacca agctgaccgt cctaggt	327

&lt;210&gt; 133

&lt;211&gt; 122

&lt;212&gt; PRT

## SeqListing.TXT

&lt;213&gt; Homo sapiens

&lt;400&gt; 133

Glu Val Gln Leu Val Gln Ser Gly Ala Glu Val Lys Lys Pro Gly Ala  
 1 5 10 15

Ser Val Lys Val Ser Cys Lys Ala Ser Gly Tyr Thr Phe Thr Asn Tyr  
 20 25 30

Gly Leu Ser Trp Val Arg Gln Ala Pro Gly Gln Gly Leu Glu Trp Met  
 35 40 45

Gly Trp Ile Ser Ala Asn Asn Gly Glu Thr Asn Tyr Gly Gln Glu Phe  
 50 55 60

Gln Gly Arg Val Thr Met Thr Thr Glu Thr Pro Thr Asn Thr Ala His  
 65 70 75 80

Met Glu Leu Arg Ser Leu Thr Ser Asp Asp Thr Ala Val Tyr Tyr Cys  
 85 90 95

Val Arg Asp Ser Ser Ser Asn Trp Ala Arg Trp Tyr Phe Asp Leu Trp  
 100 105 110

Gly Gln Gly Thr Leu Val Thr Val Ser Ser  
 115 120

&lt;210&gt; 134

&lt;211&gt; 109

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 134

Ser Tyr Val Leu Thr Gln Pro Pro Ser Val Ser Val Ala Pro Gly Gln  
 1 5 10 15

Thr Ala Arg Ile Pro Cys Gly Gly Asn Asn Ile Gly Ser Lys Leu Val  
 20 25 30

His Trp Tyr Gln Gln Lys Pro Gly Gln Ala Pro Val Leu Val Val Tyr  
 35 40 45

## SeqListing.TXT

Asp Asp Gly Asp Arg Pro Ser Gly Ile Pro Glu Arg Phe Ser Gly Ser  
 50 55 60

Asn Ser Gly Asn Thr Ala Thr Leu Thr Ile Ser Arg Ile Asp Ala Gly  
 65 70 75 80

Asp Glu Ala Asp Tyr Tyr Cys Gln Val Trp Asp Thr Gly Ser Asp Pro  
 85 90 95

Val Val Phe Gly Gly Gly Thr Lys Leu Thr Val Leu Gly.  
 100 105

<210> 135

<211> 5

<212> PRT

<213> Homo sapiens

<400> 135

Asn Tyr Gly Leu Ser  
 1 5

<210> 136

<211> 17

<212> PRT

<213> Homo sapiens

<400> 136

Trp Ile Ser Ala Asn Asn Gly Glu Thr Asn Tyr Gly Gln Glu Phe Gln  
 1 5 10 15

Gly

<210> 137

<211> 13

<212> PRT

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<400> 137

## SeqListing.TXT

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 1 5 10

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<212> PRT

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<400> 138

Gly Gly Asn Asn Ile Gly Ser Lys Leu Val His  
 1 5 10

<210> 139

<211> 7

<212> PRT

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<400> 139

Asp Asp Gly Asp Arg Pro Ser  
 1 5

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Gln Val Trp Asp Thr Gly Ser Asp Pro Val Val  
 1 5 10

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# SeqListing.TXT

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Ser Tyr Ala Met Ser  
1 5

<210> 142

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<213> Homo sapiens

<400> 142

Ala Ile Ser Gly Ser Gly Gly Ser Thr Tyr Tyr Ala Asp Ser Val Lys  
1 5 10 15

Gly

<210> 143

<211> 11

<212> PRT

<213> Homo sapiens

<400> 143

Val Gly Ala Ala Gly Glu Gly Tyr Tyr Gly Tyr  
1 5 10

<210> 144

<211> 13

<212> PRT

<213> Homo sapiens

<400> 144

Thr Arg Ser Ser Gly Ser Ile Ala Ser Asn Tyr Val Glu  
1 5 10

<210> 145

<211> 7

<212> PRT

# SeqListing.TXT

<213> Homo sapiens

<400> 145

Asp Asp Asn Gln Arg Pro Ser  
1 5

<210> 146

<211> 9

<212> PRT

<213> Homo sapiens

<400> 146

Gln Ser Tyr Asp Ser Asn Asn Asp Val  
1 5

<210> 147

<211> 5

<212> PRT

<213> Homo sapiens

<400> 147

Ser Tyr Ala Met Ser  
1 5

<210> 148

<211> 17

<212> PRT

<213> Homo sapiens

<400> 148

Ala Ile Ser Gly Ser Gly Gly Ser Thr Tyr Tyr Ala Asp Ser Val Lys  
1 5 10 15

Gly



## SeqListing.TXT

&lt;210&gt; 149

&lt;211&gt; 13

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 149

Val Gly Arg Ala Thr Thr Asp Glu Gly Tyr Tyr Gly Tyr  
 1 5 10

&lt;210&gt; 150

&lt;211&gt; 13

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 150

Thr Arg Ser Ser Gly Ser Ile Ala Ser Asn Tyr Val Gln  
 1 5 10

&lt;210&gt; 151

&lt;211&gt; 7

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 151

Asp Asp Asn Gln Arg Pro Ser  
 1 5

&lt;210&gt; 152

&lt;211&gt; 9

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 152

Gln Ser Tyr Asp Ser Asn Asn Asp Val  
 1 5

SeqListing.TXT

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<211> 5

<212> PRT

<213> Homo sapiens

<400> 153

Ser Tyr Ala Met Ser  
1 5

<210> 154

<211> 17

<212> PRT

<213> Homo sapiens

<400> 154

Ala Ile Ser Gly Ser Gly Gly Ser Thr Tyr Tyr Ala Asp Ser Val Lys  
1 5 10 15

Gly

<210> 155

<211> 11

<212> PRT

<213> Homo sapiens

<400> 155

Val Gly Lys Ala Thr Thr Glu Glu Gly Tyr Tyr  
1 5 10

<210> 156

<211> 13

<212> PRT

<213> Homo sapiens

## SeqListing.TXT

&lt;400&gt; 156

Thr Arg Ser Ser Gly Ser Ile Ala Ser Asn Tyr Val Gln  
1 5 10

&lt;210&gt; 157

&lt;211&gt; 7

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 157

Asp Asp Asn Gln Arg Pro Ser  
1 5

&lt;210&gt; 158

&lt;211&gt; 9

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 158

Gln Ser Tyr Asp Ser Asn Asn Asp Val  
1 5

&lt;210&gt; 159

&lt;211&gt; 15

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 159

aattatgggc tcagc

15

&lt;210&gt; 160

&lt;211&gt; 51

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 160

## SeqListing.TXT

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51

&lt;210&gt; 161

&lt;211&gt; 39

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 161

gactccagca gcaactgggc ccgctgggtt ttcgatctc

39

&lt;210&gt; 162

&lt;211&gt; 33

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 162

gggggaaaca acattggaag taaacttgta cac

33

&lt;210&gt; 163

&lt;211&gt; 21

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 163

gatgatggcg accggccctc a

21

&lt;210&gt; 164

&lt;211&gt; 33

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 164

cagggtg999 atactggtag tgatcccgtg gta

33

&lt;210&gt; 165

&lt;211&gt; 15

## SeqListing.TXT

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 165

aattatgggtc tcagc

15

&lt;210&gt; 166

&lt;211&gt; 51

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 166

tggatcagcg ctaataatgg cgacacaaat tatggacagg aattccaggg c

51

&lt;210&gt; 167

&lt;211&gt; 39

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 167

gactccagca gcagctgggc ccgctggttt ttcgatctc

39

&lt;210&gt; 168

&lt;211&gt; 33

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 168

gggggaaaca tcattggaag taaacttgta cac

33

&lt;210&gt; 169

&lt;211&gt; 21

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 169

## SeqListing.TXT

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21

&lt;210&gt; 170

&lt;211&gt; 33

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 170

caggtgtggg atactggtag tgatcccggtg gta

33

&lt;210&gt; 171

&lt;211&gt; 327

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 171

Ala Ser Thr Lys Gly Pro Ser Val Phe Pro Leu Ala Pro Cys Ser Arg  
1 5 10 15Ser Thr Ser Glu Ser Thr Ala Ala Leu Gly Cys Leu Val Lys Asp Tyr  
20 25 30Phe Pro Glu Pro Val Thr Val Ser Trp Asn Ser Gly Ala Leu Thr Ser  
35 40 45Gly Val His Thr Phe Pro Ala Val Leu Gln Ser Ser Gly Leu Tyr Ser  
50 55 60Leu Ser Ser Val Val Thr Val Pro Ser Ser Ser Leu Gly Thr Lys Thr  
65 70 75 80Tyr Thr Cys Asn Val Asp His Lys Pro Ser Asn Thr Lys Val Asp Lys  
85 90 95Arg Val Glu Ser Lys Tyr Gly Pro Pro Cys Pro Ser Cys Pro Ala Pro  
100 105 110Glu Phe Leu Gly Gly Pro Ser Val Phe Leu Phe Pro Pro Lys Pro Lys  
115 120 125Asp Thr Leu Met Ile Ser Arg Thr Pro Glu Val Thr Cys Val Val Val  
130 135 140

# SeqListing.TXT

Asp Val Ser Gln Glu Asp Pro Glu Val Gln Phe Asn Trp Tyr Val Asp  
145 150 155 160

Gly Val Glu Val His Asn Ala Lys Thr Lys Pro Arg Glu Glu Gln Phe  
165 170 175

Asn Ser Thr Tyr Arg Val Val Ser Val Leu Thr Val Leu His Gln Asp  
180 185 190

Trp Leu Asn Gly Lys Glu Tyr Lys Cys Lys Val Ser Asn Lys Gly Leu  
195 200 205

Pro Ser Ser Ile Glu Lys Thr Ile Ser Lys Ala Lys Gly Gln Pro Arg  
210 215 220

Glu Pro Gln Val Tyr Thr Leu Pro Pro Ser Gln Glu Glu Met Thr Lys  
225 230 235 240

Asn Gln Val Ser Leu Thr Cys Leu Val Lys Gly Phe Tyr Pro Ser Asp  
245 250 255

Ile Ala Val Glu Trp Glu Ser Asn Gly Gln Pro Glu Asn Asn Tyr Lys  
260 265 270

Thr Thr Pro Pro Val Leu Asp Ser Asp Gly Ser Phe Phe Leu Tyr Ser  
275 280 285

Arg Leu Thr Val Asp Lys Ser Arg Trp Gln Glu Gly Asn Val Phe Ser  
290 295 300

Cys Ser Val Met His Glu Ala Leu His Asn His Tyr Thr Gln Lys Ser  
305 310 315 320

Leu Ser Leu Ser Leu Gly Lys  
325

<210> 172

<211> 105

<212> PRT

<213> Homo sapiens

<400> 172

Gln Pro Lys Ala Ala Pro Ser Val Thr Leu Phe Pro Pro Ser Ser Glu  
Page 63

## SeqListing.TXT

1                      5                      10                      15

Glu Leu Gln Ala Asn Lys Ala Thr Leu Val Cys Leu Ile Ser Asp Phe  
                     20                      25                      30

Tyr Pro Gly Ala Val Thr Val Ala Trp Lys Ala Asp Ser Ser Pro Val  
                     35                      40                      45

Lys Ala Gly Val Glu Thr Thr Thr Pro Ser Lys Gln Ser Asn Asn Lys  
                     50                      55                      60

Tyr Ala Ala Ser Ser Tyr Leu Ser Leu Thr Pro Glu Gln Trp Lys Ser  
                     65                      70                      75                      80

His Arg Ser Tyr Ser Cys Gln Val Thr His Glu Gly Ser Thr Val Glu  
                     85                      90                      95

Lys Thr Val Ala Pro Thr Glu Cys Ser  
                     100                      105

&lt;210&gt; 173

&lt;211&gt; 132

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 173

Met Ala Leu Leu Leu Thr Thr Val Ile Ala Leu Thr Cys Leu Gly Gly  
                     1                      5                      10                      15

Phe Ala Ser Pro Gly Pro Val Pro Pro Ser Thr Ala Leu Arg Glu Leu  
                     20                      25                      30

Ile Glu Glu Leu Val Asn Ile Thr Gln Asn Gln Lys Ala Pro Leu Cys  
                     35                      40                      45

Asn Gly Ser Met Val Trp Ser Ile Asn Leu Thr Ala Gly Met Tyr Cys  
                     50                      55                      60

Ala Ala Leu Glu Ser Leu Ile Asn Val Ser Gly Cys Ser Ala Ile Glu  
                     65                      70                      75                      80

Lys Thr Gln Arg Met Leu Ser Gly Phe Cys Pro His Lys Val Ser Ala  
                     85                      90                      95



## SeqListing.TXT

Gly Gln Phe Ser Ser Leu His Val Arg Asp Thr Lys Ile Glu Val Ala  
 100 105 110

Gln Phe Val Lys Asp Leu Leu Leu His Leu Lys Lys Leu Phe Arg Glu  
 115 120 125

Gly Arg Phe Asn  
 130

<210> 174

<211> 132

<212> PRT

<213> Macaca fascicularis

<400> 174

Met Ala Leu Leu Leu Thr Thr Val Ile Ala Leu Thr Cys Leu Gly Gly  
 1 5 10 15

Phe Ala Ser Pro Ser Pro Val Pro Pro Ser Thr Ala Leu Lys Glu Leu  
 20 25 30

Ile Glu Glu Leu Val Asn Ile Thr Gln Asn Gln Lys Ala Pro Leu Cys  
 35 40 45

Asn Gly Ser Met Val Trp Ser Ile Asn Leu Thr Ala Gly Val Tyr Cys  
 50 55 60

Ala Ala Leu Glu Ser Leu Ile Asn Val Ser Gly Cys Ser Ala Ile Glu  
 65 70 75 80

Lys Thr Gln Arg Met Leu Asn Gly Phe Cys Pro His Lys Val Ser Ala  
 85 90 95

Gly Gln Phe Ser Ser Leu Arg Val Arg Asp Thr Lys Ile Glu Val Ala  
 100 105 110

Gln Phe Val Lys Asp Leu Leu Val His Leu Lys Lys Leu Phe Arg Glu  
 115 120 125

Gly Gln Phe Asn  
 130

<210> 175

<211> 131

SeqListing.TXT

<212> PRT

<213> Mus sp.

<400> 175

Met Ala Leu Trp Val Thr Ala Val Leu Ala Leu Ala Cys Leu Gly Gly  
1 5 10 15

Leu Ala Ala Pro Gly Pro Val Pro Arg Ser Val Ser Leu Pro Leu Thr  
20 25 30

Leu Lys Glu Leu Ile Glu Glu Leu Ser Asn Ile Thr Gln Asp Gln Thr  
35 40 45

Pro Leu Cys Asn Gly Ser Met Val Trp Ser Val Asp Leu Ala Ala Gly  
50 55 60

Gly Phe Cys Val Ala Leu Asp Ser Leu Thr Asn Ile Ser Asn Cys Asn  
65 70 75 80

Ala Ile Tyr Arg Thr Gln Arg Ile Leu His Gly Leu Cys Asn Arg Lys  
85 90 95

Ala Pro Thr Thr Val Ser Ser Leu Pro Asp Thr Lys Ile Glu Val Ala  
100 105 110

His Phe Ile Thr Lys Leu Leu Ser Tyr Thr Lys Gln Leu Phe Arg His  
115 120 125

Gly Pro Phe  
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<223> HCDR1 formula

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&lt;221&gt; MISC\_FEATURE

&lt;222&gt; (2)..(2)

&lt;223&gt; Xaa = Tyr or Thr

&lt;220&gt;

&lt;221&gt; MISC\_FEATURE

&lt;222&gt; (4)..(4)

&lt;223&gt; Xaa = Val, Ile, Phe or Leu

&lt;400&gt; 176

Xaa Xaa Gly Xaa Ser  
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&lt;210&gt; 177

&lt;211&gt; 17

&lt;212&gt; PRT

&lt;213&gt; Artificial sequence

&lt;220&gt;

&lt;223&gt; HCDR2 formula

&lt;220&gt;

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&lt;223&gt; Xaa = Ser, Asp, Asn, Ala, Arg, Gly or Glu

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&lt;221&gt; MISC\_FEATURE

&lt;222&gt; (4)..(4)

<223> Xaa = Ala, Asp, Gly, Thr, Pro, Asn or Tyr  
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<223> Xaa = Asn, Asp, Leu, Ala, Pro, Thr, Ser, Ile or Arg

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<222> (6)..(6)

<223> Xaa = Asn, Ser, Thr, Asp, Gly, Lys or Ile

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<222> (8)..(8)

<223> Xaa = Asp, Thr, Glu, Gln, Leu, Tyr, Asn, Val, Ala, Met or Gly

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<222> (10)..(10)

<223> Xaa = Asn, Ile, Leu, Gln, Ser, Met, His, Asp or Lys

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<223> Xaa = Gly or Arg

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<223> Xaa = Gln or Arg

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<223> Xaa = Gln or Arg

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<222> (17)..(17)

<223> Xaa = Gly or Lys

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Trp Ile Xaa Xaa Xaa Xaa Gly Xaa Thr Xaa Tyr Xaa Xaa Xaa Phe Xaa  
1 5 10 15

Xaa

<210> 178

<211> 13

<212> PRT

<213> Artificial sequence

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<223> HCDR3 formula

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<223> Xaa = Ser, Arg or Asp

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<222> (4)..(4)

<223> Xaa = Ser or Arg

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<222> (5)..(5)

<223> Xaa = Ser, Asn, Ala, Ile, Arg, Pro or Lys

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<222> (10)..(10)

<223> Xaa = Phe or Tyr

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<221> MISC\_FEATURE

<222> (12)..(12)

<223> Xaa = Asp or Tyr

<400> 178

Asp Xaa Xaa Xaa Xaa Trp Ala Arg Trp Xaa Phe Xaa Leu  
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<210> 179

<211> 11

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<213> Artificial sequence

<220>

<223> LCDR1 formula

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<223> Xaa = Asn, Asp or Ser

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<222> (4)..(4)

<223> Xaa = Asn, Ile, Leu, Met, Cys, Val, Lys, Tyr, Phe, Arg, Thr, Ser, Ala, His or Gly

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<223> Xaa = Ile or Val

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<222> (7)..(7)

<223> Xaa = Ser or Gly

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<222> (8)..(8)

<223> Xaa = Lys or Arg

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Gly Gly Xaa Xaa Xaa Gly Xaa Xaa Leu Val His  
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<223> Xaa = Ser or Thr

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<210> 181

<211> 11

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<223> LCDR3 formula

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<223> Xaa = Asp or Asn

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<222> (11)..(11)

<223> Xaa = Val or Ile



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Gln Val Trp Asp Thr Gly Ser Xaa Pro Val Xaa  
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<213> Homo sapiens

<400> 182

Leu Thr Gly Val Ser  
1 5

<210> 183

<211> 5

<212> PRT

<213> Homo sapiens

<400> 183

Gly Thr Gly Val Ser  
1 5

<210> 184

<211> 5

<212> PRT

<213> Homo sapiens

<400> 184

Glu Thr Gly Ile Ser  
1 5

<210> 185

<211> 5

<212> PRT

## SeqListing.TXT

&lt;213&gt; Homo sapiens

&lt;400&gt; 185

Asp Thr Gly Ile Ser  
1 5

&lt;210&gt; 186

&lt;211&gt; 5

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 186

Gly Thr Gly Ile Ser  
1 5

&lt;210&gt; 187

&lt;211&gt; 5

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 187

Asn Tyr Gly Phe Ser  
1 5

&lt;210&gt; 188

&lt;211&gt; 17

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 188

Trp Ile Arg Pro Thr Asp Gly Leu Thr Met Tyr Gly Gln Glu Phe Gln  
1 5 10 15

Gly

&lt;210&gt; 189

# SeqListing.TXT

<211> 17

<212> PRT

<213> Homo sapiens

<400> 189

Trp Ile Asp Asp Arg Thr Gly Thr Thr Gln Tyr Gly Gln Glu Phe Gln  
1 5 10 15

Gly

<210> 190

<211> 17

<212> PRT

<213> Homo sapiens

<400> 190

Trp Ile Arg Ala Ser Asp Gly Gln Thr Ile Tyr Gly Gln Glu Phe Gln  
1 5 10 15

Gly

<210> 191

<211> 17

<212> PRT

<213> Homo sapiens

<400> 191

Trp Ile Ser Gly Ile Asp Gly Val Thr Leu Tyr Gly Gln Glu Phe Gln  
1 5 10 15

Gly

<210> 192

<211> 17

## SeqListing.TXT

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 192

Trp Ile Arg Ala Ala Asp Gly Glu Thr His Tyr Gly Gln Glu Phe Gln  
1 5 10 15

Gly

&lt;210&gt; 193

&lt;211&gt; 17

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 193

Trp Ile Gly Asn Asn Asn Gly Asp Thr Leu Tyr Gly Gln Glu Phe Gln  
1 5 10 15

Gly

&lt;210&gt; 194

&lt;211&gt; 17

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 194

Trp Ile Gly Pro Ser Lys Gly Glu Thr Ser Tyr Gly Gln Glu Phe Gln  
1 5 10 15

Gly

&lt;210&gt; 195

&lt;211&gt; 17

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

SeqListing.TXT

<400> 195

Trp Ile Arg Pro Arg Asp Gly Thr Thr His Tyr Gly Gln Glu Phe Gln  
1 5 10 15

Gly

<210> 196

<211> 17

<212> PRT

<213> Homo sapiens

<400> 196

Trp Ile Ser Gly Arg Ser Gly Ala Thr Leu Tyr Gly Gln Glu Phe Gln  
1 5 10 15

Gly

<210> 197

<211> 17

<212> PRT

<213> Homo sapiens

<400> 197

Trp Ile Glu Gly Ser Thr Gly Asn Thr Ile Tyr Gly Gln Glu Phe Gln  
1 5 10 15

Gly

<210> 198

<211> 17

<212> PRT

<213> Homo sapiens

# SeqListing.TXT

<400> 198

Trp Ile Gly Pro Ile Asn Gly Met Thr His Tyr Gly Gln Glu Phe Gln  
1 5 10 15

Gly

<210> 199

<211> 17

<212> PRT

<213> Homo sapiens

<400> 199

Trp Ile Ser Ala Asn Asn Gly Asp Thr Asn Tyr Gly Gln Lys Phe Gln  
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Gly

<210> 200

<211> 17

<212> PRT

<213> Homo sapiens

<400> 200

Trp Ile Ser Ala Asn Asn Gly Asp Thr Asp Tyr Gly Gln Glu Phe Gln  
1 5 10 15

Gly

<210> 201

<211> 17

<212> PRT

<213> Homo sapiens

<400> 201

Trp Ile Ser Ala Asn Asn Gly Gly Thr Asn Tyr Gly Gln Glu Phe Gln  
Page 78

SeqListing.TXT  
10

1 5 15

Gly

<210> 202

<211> 17

<212> PRT

<213> Homo sapiens

<400> 202

Trp Ile Ser Ala Asn Asn Gly Asp Thr Asn Tyr Arg Gln Glu Phe Gln  
1 5 10 15

Gly

<210> 203

<211> 17

<212> PRT

<213> Homo sapiens

<400> 203

Trp Ile Gly Ala Asn Asn Gly Asp Thr Asn Tyr Gly Gln Glu Phe Gln  
1 5 10 15

Gly

<210> 204

<211> 17

<212> PRT

<213> Homo sapiens

<400> 204

Trp Ile Ser Ala Asn Asn Gly Asp Thr Asn Tyr Gly Gln Glu Phe Arg  
1 5 10 15

## SeqListing.TXT

Gly

&lt;210&gt; 205

&lt;211&gt; 17

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 205

Trp Ile Ser Ala Asn Asn Gly Asp Thr Ile Tyr Gly Gln Glu Phe Gln  
1 5 10 15

Gly

&lt;210&gt; 206

&lt;211&gt; 17

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 206

Trp Ile Ser Thr Asn Asn Gly Asp Thr Asn Tyr Gly Gln Glu Phe Gln  
1 5 10 15

Gly

&lt;210&gt; 207

&lt;211&gt; 17

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 207

Trp Ile Ser Ala Asn Asn Gly Asp Thr Ile Tyr Arg Gln Glu Phe Gln  
1 5 10 15

Gly



# SeqListing.TXT

<210> 208

<211> 17

<212> PRT

<213> Homo sapiens

<400> 208

Trp Ile Ser Ala Asn Asn Gly Asp Thr Ser Tyr Gly Gln Glu Phe Gln  
1 5 10 15

Gly

<210> 209

<211> 17

<212> PRT

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<400> 209

Trp Ile Ser Ala Asn Asn Gly Asp Thr Lys Tyr Gly Gln Glu Phe Gln  
1 5 10 15

Gly

<210> 210

<211> 17

<212> PRT

<213> Homo sapiens

<400> 210

Trp Ile Gly Ala Asn Asn Gly Asp Thr Asp Tyr Gly Gln Glu Phe Gln  
1 5 10 15

Gly

<210> 211

## SeqListing.TXT

&lt;211&gt; 17

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 211

Trp Ile Ser Ala Asn Ile Gly Asp Thr Asn Tyr Gly Gln Glu Phe Gln  
1 5 10 15

Gly

&lt;210&gt; 212

&lt;211&gt; 17

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 212

Trp Ile Ser Ala Asn Asn Gly Asp Thr Asn Tyr Gly Gln Gly Phe Gln  
1 5 10 15

Gly

&lt;210&gt; 213

&lt;211&gt; 17

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 213

Trp Ile Ser Thr Asn Asn Gly Asp Thr Asn Tyr Gly Arg Glu Phe Gln  
1 5 10 15

Gly

&lt;210&gt; 214

&lt;211&gt; 17

&lt;212&gt; PRT

# SeqListing.TXT

<213> Homo sapiens

<400> 214

Trp Ile Ser Ala Asn Asn Gly Asp Thr Asn Tyr Gly Gln Glu Phe Gln  
1 5 10 15

Lys

<210> 215

<211> 13

<212> PRT

<213> Homo sapiens

<400> 215

Asp Ser Asp Ser Ser Trp Ala Arg Trp Phe Phe Asp Leu  
1 5 10

<210> 216

<211> 13

<212> PRT

<213> Homo sapiens

<400> 216

Asp Ser Thr Ser Ala Trp Ala Arg Trp Phe Phe Asp Leu  
1 5 10

<210> 217

<211> 13

<212> PRT

<213> Homo sapiens

<400> 217

Asp Ser Asn Ser Ala Trp Ala Arg Trp Phe Phe Asp Leu  
1 5 10

## SeqListing.TXT

&lt;210&gt; 218

&lt;211&gt; 13

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 218

Asp Ser Ser Ser Ile Trp Ala Arg Trp Phe Phe Asp Leu  
1 5 10

&lt;210&gt; 219

&lt;211&gt; 13

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 219

Asp Ser Thr Ser Arg Trp Ala Arg Trp Phe Phe Asp Leu  
1 5 10

&lt;210&gt; 220

&lt;211&gt; 13

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 220

Asp Asp Pro Arg Pro Trp Ala Arg Trp Phe Phe Asp Leu  
1 5 10

&lt;210&gt; 221

&lt;211&gt; 13

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 221

Asp Ser Ser Ser Lys Trp Ala Arg Trp Phe Phe Asp Leu  
1 5 10

# SeqListing.TXT

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<211> 13

<212> PRT

<213> Homo sapiens

<400> 222

Asp Ser Asn Ser Asn Trp Ala Arg Trp Phe Phe Tyr Leu  
1 5 10

<210> 223

<211> 13

<212> PRT

<213> Homo sapiens

<400> 223

Asp Ser Asn Ser Ser Trp Ala Arg Trp Phe Phe Asp Leu  
1 5 10

<210> 224

<211> 13

<212> PRT

<213> Homo sapiens

<400> 224

Asp Arg Asp Ser Ser Trp Ala Arg Trp Phe Phe Asp Leu  
1 5 10

<210> 225

<211> 11

<212> PRT

<213> Homo sapiens

<400> 225

Gly Gly Asn Leu Ile Gly Ser Lys Leu Val His  
1 5 10

# SeqListing.TXT

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<211> 11

<212> PRT

<213> Homo sapiens

<400> 226

Gly Gly Asn Met Ile Gly Ser Lys Leu Val His  
1 5 10

<210> 227

<211> 11

<212> PRT

<213> Homo sapiens

<400> 227

Gly Gly Asn Cys Ile Gly Ser Lys Leu Val His  
1 5 10

<210> 228

<211> 11

<212> PRT

<213> Homo sapiens

<400> 228

Gly Gly Asn Val Ile Gly Ser Lys Leu Val His  
1 5 10

<210> 229

<211> 11

<212> PRT

<213> Homo sapiens

<400> 229

Gly Gly Asn Lys Ile Gly Ser Lys Leu Val His  
Page 86

1 5  
<210> 230  
<211> 11  
<212> PRT  
<213> Homo sapiens

<400> 230  
Gly Gly Asn Tyr Ile Gly Ser Lys Leu Val His  
1 5 10

<210> 231  
<211> 11  
<212> PRT  
<213> Homo sapiens

<400> 231  
Gly Gly Asn Phe Ile Gly Ser Lys Leu Val His  
1 5 10

<210> 232  
<211> 11  
<212> PRT  
<213> Homo sapiens

<400> 232  
Gly Gly Asn Arg Ile Gly Ser Lys Leu Val His  
1 5 10

<210> 233  
<211> 11  
<212> PRT  
<213> Homo sapiens

<400> 233

Gly Gly Asn Thr Ile Gly Ser Lys Leu Val His  
1 5 10

<210> 234

<211> 11

<212> PRT

<213> Homo sapiens

<400> 234

Gly Gly Asn Asn Ile Gly Gly Lys Leu Val His  
1 5 10

<210> 235

<211> 11

<212> PRT

<213> Homo sapiens

<400> 235

Gly Gly Asn Ser Ile Gly Ser Arg Leu Val His  
1 5 10

<210> 236

<211> 11

<212> PRT

<213> Homo sapiens

<400> 236

Gly Gly Asp Asn Ile Gly Gly Lys Leu Val His  
1 5 10

<210> 237

<211> 11

<212> PRT

<213> Homo sapiens

<400> 237



SeqListing.TXT

Gly Gly Asn Ser Ile Gly Gly Lys Leu Val His  
1 5 10

<210> 238

<211> 11

<212> PRT

<213> Homo sapiens

<400> 238

Gly Gly Asn Ala Ile Gly Ser Lys Leu Val His  
1 5 10

<210> 239

<211> 11

<212> PRT

<213> Homo sapiens

<400> 239

Gly Gly Asn Ser Ile Gly Ser Lys Leu Val His  
1 5 10

<210> 240

<211> 11

<212> PRT

<213> Homo sapiens

<400> 240

Gly Gly Asn His Ile Gly Ser Lys Leu Val His  
1 5 10

<210> 241

<211> 11

<212> PRT

<213> Homo sapiens

## SeqListing.TXT

&lt;400&gt; 241

Gly Gly Asn Gly Ile Gly Ser Lys Leu Val His  
1 5 10

&lt;210&gt; 242

&lt;211&gt; 11

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 242

Gly Gly Ser Asn Ile Gly Gly Lys Leu Val His  
1 5 10

&lt;210&gt; 243

&lt;211&gt; 11

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 243

Gly Gly Asn Asn Val Gly Gly Lys Leu Val His  
1 5 10

&lt;210&gt; 244

&lt;211&gt; 11

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 244

Gly Gly Asn Asn Ile Gly Ser Arg Leu Val His  
1 5 10

&lt;210&gt; 245

&lt;211&gt; 7

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

# SeqListing.TXT

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Asp Asp Gly Asp Arg Pro Thr  
1 5

<210> 246

<211> 11

<212> PRT

<213> Homo sapiens

<400> 246

Gln Val Trp Asp Thr Gly Ser Asn Pro Val Val  
1 5 10

<210> 247

<211> 11

<212> PRT

<213> Homo sapiens

<400> 247

Gln Val Trp Asp Thr Gly Ser Asp Pro Val Ile  
1 5 10

<210> 248

<211> 132

<212> PRT

<213> Artificial sequence

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<223> Consensus between human IL-3 and Cynomolgus IL-3

<220>

<221> MISC\_FEATURE

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<223> Xaa = Any amino acid

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&lt;400&gt; 248

Met Ala Leu Leu Leu Thr Thr Val Ile Ala Leu Thr Cys Leu Gly Gly  
 1 5 10 15

Phe Ala Ser Pro Xaa Pro Val Pro Pro Ser Thr Ala Leu Xaa Glu Leu  
 20 25 30

Ile Glu Glu Leu Val Asn Ile Thr Gln Asn Gln Lys Ala Pro Leu Cys  
 35 40 45

Asn Gly Ser Met Val Trp Ser Ile Asn Leu Thr Ala Gly Xaa Tyr Cys  
 50 55 60

Ala Ala Leu Glu Ser Leu Ile Asn Val Ser Gly Cys Ser Ala Ile Glu  
 65 70 75 80

Lys Thr Gln Arg Met Leu Xaa Gly Phe Cys Pro His Lys Val Ser Ala  
 85 90 95

Gly Gln Phe Ser Ser Leu Xaa Val Arg Asp Thr Lys Ile Glu Val Ala  
 100 105 110

Gln Phe Val Lys Asp Leu Leu Xaa His Leu Lys Lys Leu Phe Arg Glu  
 115 120 125

Gly Xaa Phe Asn  
 130

&lt;210&gt; 249

&lt;211&gt; 136

&lt;212&gt; PRT

&lt;213&gt; Artificial sequence

&lt;220&gt;

&lt;223&gt; Consensus between human IL-3 and murine IL-3

&lt;220&gt;

&lt;221&gt; MISC\_FEATURE

&lt;222&gt; (4, 5, 7, 9, 12, 17, 19, 25, 27..32, 34, 41, 46, 48)

&lt;223&gt; Xaa = Any amino acid

&lt;220&gt;

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&lt;222&gt; (49, 60, 61, 63, 66, 67, 69, 72, 75, 77, 79, 81, 84)

&lt;223&gt; Xaa = Any amino acid

&lt;220&gt;

&lt;221&gt; MISC\_FEATURE

&lt;222&gt; (85, 89, 91, 93, 95, 96, 98..103, 107..109, 117)

&lt;223&gt; Xaa = Any amino acid

&lt;220&gt;

&lt;221&gt; MISC\_FEATURE

&lt;222&gt; (119..121, 124..126, 128, 132, 134, 136)

&lt;223&gt; Xaa = Any amino acid

&lt;400&gt; 249

Met Ala Leu Xaa Xaa Thr Xaa Val Xaa Ala Leu Xaa Cys Leu Gly Gly  
 1 5 10 15

Xaa Ala Xaa Pro Gly Pro Val Pro Xaa Ser Xaa Xaa Xaa Xaa Xaa Xaa  
 20 25 30

Leu Xaa Glu Leu Ile Glu Glu Leu Xaa Asn Ile Thr Gln Xaa Gln Xaa  
 35 40 45

Xaa Pro Leu Cys Asn Gly Ser Met Val Trp Ser Xaa Xaa Leu Xaa Ala  
 50 55 60

Gly Xaa Xaa Cys Xaa Ala Leu Xaa Ser Leu Xaa Asn Xaa Ser Xaa Cys  
 65 70 75 80

Xaa Ala Ile Xaa Xaa Thr Gln Arg Xaa Leu Xaa Gly Xaa Cys Xaa Xaa  
 85 90 95

Lys Xaa Xaa Xaa Xaa Xaa Xaa Ser Ser Leu Xaa Xaa Xaa Asp Thr Lys  
 100 105 110

Ile Glu Val Ala Xaa Phe Xaa Xaa Xaa Leu Leu Xaa Xaa Xaa Lys Xaa  
 115 120 125

Leu Phe Arg Xaa Gly Xaa Phe Xaa  
 130 135

SeqListing.TXT